

## ELECTROACTIVE POLYMER ROTARY MOTORS

### ABSTRACT OF THE DISCLOSURE

5        The present invention relates to mechanical-electrical power conversion systems.  
The systems comprise one or more electroactive polymers that convert between electrical and  
mechanical energy. When a voltage is applied to electrodes contacting an electroactive  
polymer, the polymer deflects. This deflection may be converted into rotation of a power  
shaft included in a motor. Repeated deflection of the polymer may then produce continuous  
10      rotation of the power shaft.